

Volume 25, No. 2, February 1993

CAROLINA COUNTRY

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In Search of Native Apples

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What's New at the Zoo?

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On the Cover

Lions at the North Carolina Zoological Park await the arrival of Sonora Desert animals this fall. See story and more photos, pages 10-12. Photo by Duane Salstrand Studio, Raleigh.



EMCs' load management program

A milestone that's worth celebrating

By H. Wayne Wilkins

No party is scheduled but North Carolina's electric cooperatives have reason to celebrate this year, as they mark the end of a decade of operation for their statewide load management program.

The program was launched in 1983 as a means of coping with the trends that were posing problems for the entire utility industry. The peak demand for power was rising steadily as the cost of building new generating facilities soared, prompting the co-ops to seek new methods of using existing facilities more efficiently.

Load management was introduced as a way to reduce the Electric Membership Corporations' peak demand and, in the process, hold down the cost of power for the co-ops and their consumer-members.

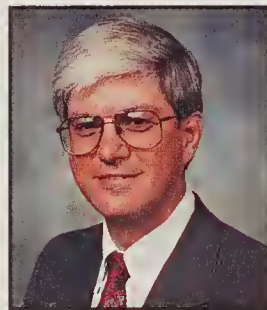
By all accounts, the program has achieved its goals in fine fashion.

Looking back, though, I remember that the concept held great promise—but there were absolutely no guarantees for the 27 co-ops who joined forces behind this bold new idea.

Nonetheless, the co-ops, including the one I serve as executive vice president—Davidson EMC, Lexington—rose to the challenge, agreeing to assume responsibility for the \$27 million investment required to launch the program.

The first obstacle we faced was how to convey the advantages to our members, especially when we were asking them to voluntarily allow their co-op to take control of their appliances—water heaters, central air conditioning systems and heat pumps. Special switches were installed at the homes to interrupt electric service to these appliances during periods of peak demand for power.

In 1984, the co-ops mounted a major promotional campaign to gain customer acceptance using direct mail, news articles and ads, programs for local civic groups, direct tele-



H. Wayne Wilkins

phone solicitation and other efforts. The campaign emphasized the fact that there would be no direct cost to the members and they could have the switch removed if they were not satisfied with the program. Most co-ops also offered a modest reduction in the electric bill for those who volunteered.

We asked the members to do their part in helping their co-ops reduce power costs by volunteering "to shave the peak." They responded by the thousands to make the program work.

Now, 10 years down the road, we have no difficulty measuring the program's success.

In member support: Nearly 200,000 co-op members across the state currently participate as volunteers.

In dollars and cents: Davidson EMC alone has saved almost \$10 million, and we expect even heftier savings will be realized if we are able to take advantage of new "deeper cycling" systems that are now being tested. The 27 participating co-ops combined have saved upwards of \$70 million—after they recouped their initial investment. These savings have benefitted the members directly by holding rate increases to a minimum.

Without a doubt, the program has been an unqualified success in its first 10 years of operation—and it will continue to benefit the co-ops and their members for years to come.

That's worth celebrating—even if we do it without cake and ice cream.

H. Wayne Wilkins is executive vice president of Davidson Electric Membership Corporation, Lexington.

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.....
To save them from extinction

Tracking down old Southern apples

By Lee Calhoun

If you grew up on a North Carolina farm and are old enough to remember Pearl Harbor, perhaps some of these names will bring back fond memories: Magnum Bonum, Horse, Buckingham, Red June, Mattamuskeet, June Sweeting.

How about these: Buff, Buncombe, Hunge, Hollow Log, Lacy, Nickajack, Smith's Seedling?

If the names are familiar to you, your mouth is likely to be watering by now as the memories stir your tastebuds. You may be recalling the flavor of crisp, ripe apples. Or warm apple dumplings. Or Mom's luscious apple pie.

The names are all varieties of apples which were once grown and appreciated by North Carolina farm families. They all originated in the state in the 1800s. Many have all but disappeared save for a few specimens that now grow in my small preservation orchard in Chatham County.

Since retiring from the Army, I have spent about 10 years researching old Southern apple varieties and tracking down as many as can still be found.

Of the 268 apples which originated in North Carolina, I have managed to find only 40. But I haven't abandoned my search...I need your help in trying to save these dying apple varieties.

My research in old books and nursery catalogs shows that at least 268 different apples originated in

North Carolina. Small local nurseries grafted and sold trees of these apples, often employing traveling agents or peddlers. In earlier times, these agents traveled rural areas on horseback with saddlebags full of young fruit trees ready for planting.

Southern nurseries once stocked a huge number of apple varieties to satisfy the needs of farm families. Old catalogs listed 160 apple varieties for a North Carolina nursery in 1852 and 428 for a Virginia nursery in 1869.

Farm families had specific requirements for apples. They wanted to grow several kinds of apples to provide fresh fruit all season long. They also wanted at least one apple which ripened late and could be kept in a pit or unheated room through the winter. Sweet apples were prized for baking and soft apples for sauce. Tart summer apples were especially useful for drying, and apples which retained their aroma were perfect for long-cooked apple butter. Still other

apples were good for frying or in pies.

Almost unnoticed, these unique apple varieties have begun dying out. Of the 268 apples which originated in North Carolina, I have managed to find only 40. But I haven't abandoned my search.

Because apple trees live a long time, many other old varieties may still exist somewhere as old trees. The problem is that there are no nameplates on these old trees and a tree without a name is useless to me. I am looking for

those apples described in old catalogs and other references and, for this reason, I need to find old trees of

known variety. My experience is that identification of unknown old apples is often impossible because of incomplete published descriptions and because there were so many old varieties.

Through research and interviews with older people, I have learned that certain apples were grown all over North Carolina while others were grown only in localized areas. The Horse, Buckingham and Red June apples were widely popular

with farm families. The John apple, on the other hand, was grown only in the Lowgap area west of Mount Airy and the Lacy apple, only around Monroe. The Mattamuskeet and June Sweeting were adapted to the coastal plain while the Green Cheese and Cullasaga were mountain apples.

Smith's Seedling apparently originated in Stokes County and was grown only in that area. The Bald Mountain was popular near the Georgia line, while Limbertwigs were important in the coves and hollows of the Great Smoky Mountains. The Summer Orange was grown only in Chatham and Alamance counties.

One of the oldest North Carolina apples is the Hunge, once used for fresh eating, cooking, drying and brandy. It was described as a very old variety in a book published in 1857.

Fifty years ago, when a seedling apple tree grew up in a ditch near her house outside Newton Grove, Gertrude Morris remembered the Hunge tree in her father's old orchard. She

replanted the seedling in a field and grafted it with a twig from her father's old tree. Her tree was the only known surviving Hunge apple tree when she wrote to me in 1986. I now have a Hunge tree in my preservation orchard.

After a long search, I finally located a single surviving old tree of Bevan's Favorite (or Early Bevans) in Alamance County. This 150-year-old apple variety was popular in central North Carolina until about 1900. Four months after I grafted from the old tree, it was gone—blown over in a storm. This underscores the importance of quick work to keep even more of these old apple varieties from disappearing forever.

Apples do not come true from seed, so I must obtain twigs from old trees and graft them onto new, young roots. The new tree then grows to duplicate the original apple variety exactly. I do grafting in March and April but a variation of grafting—called bud-ding—can be done in summer.

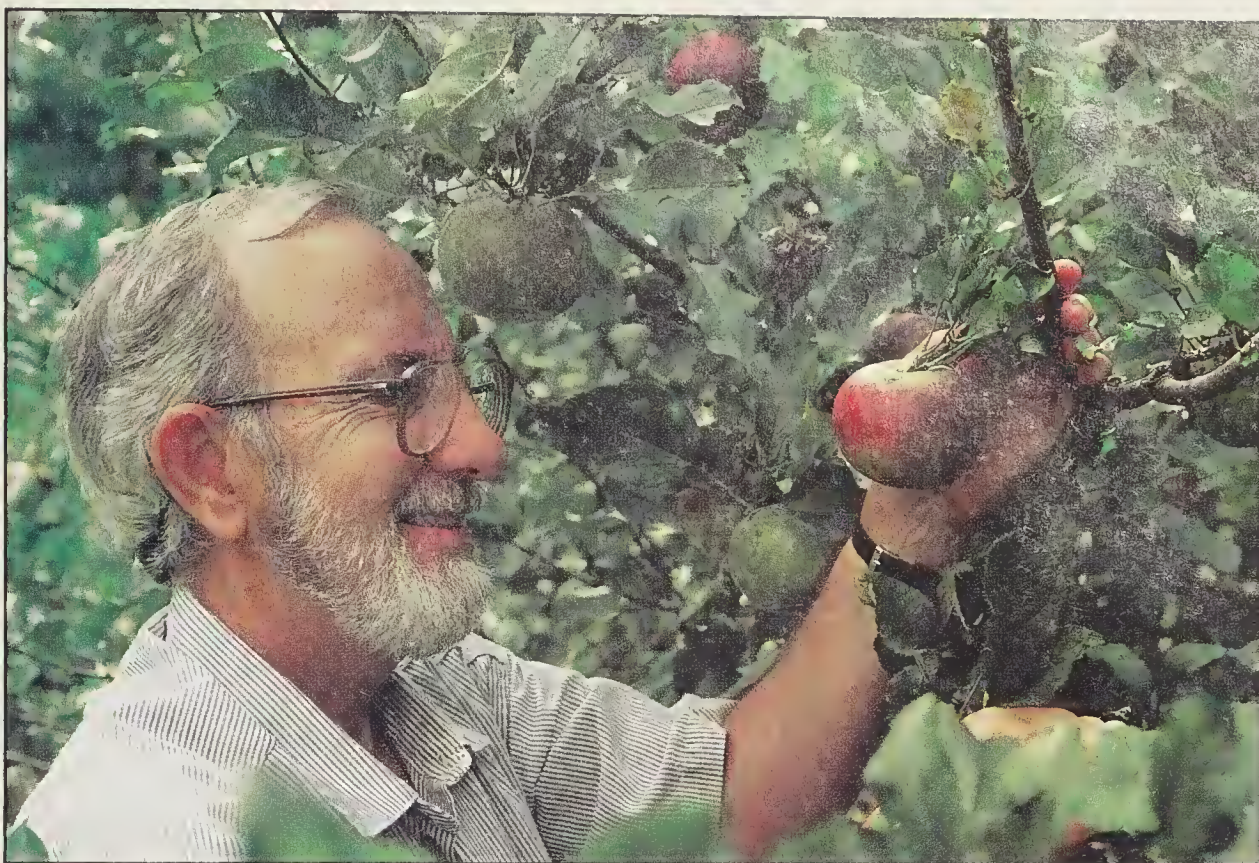
Although I have been successful in finding some of the old varieties, I have been unable to find one old North Carolina apple that has been at the top of my search list since my quest began. It's the Hall. Older people still remember this apple, but it may be extinct now.

From old references, I believe the Hall, a small red apple of high flavor, was the finest "winter keeping apple" ever grown in North Carolina. It is supposed to have originated as a wild seedling in Franklin County before 1800 and was sold by nurseries all over the South in the 1800s as a winter keeper. Its small size kept the Hall from becoming an important commercial apple, which may have led to its becoming extinct.

Why have so many of these old apples disappeared?

Their decline parallels the decline of subsistence farming in North Carolina. At one time farm families grew and preserved most of their own

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Lee Calhoun examines trees in his Chatham County preservation orchard.

—photo © Jerry Markatos

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food. Apples were important to them as a food source. As family farms disappeared and cities and towns grew, people no longer had a direct connection to their food source and were content to let the grocery stores choose for them. Apple varieties were chosen for their appearance, adaptability to commercial orchards, storage and shipping qualities. Many old varieties, suitable only to home orchards, slowly died out.

Most of the small Southern nurseries went out of business during the Depression years when they could not compete with the larger nurseries elsewhere in the country. These large nurseries were not interested in selling small quantities of locally favorite apple varieties for home orchards.

I need your help in trying to save these dying apple varieties. The 25 that I think are most likely to be found are listed in the box at right.

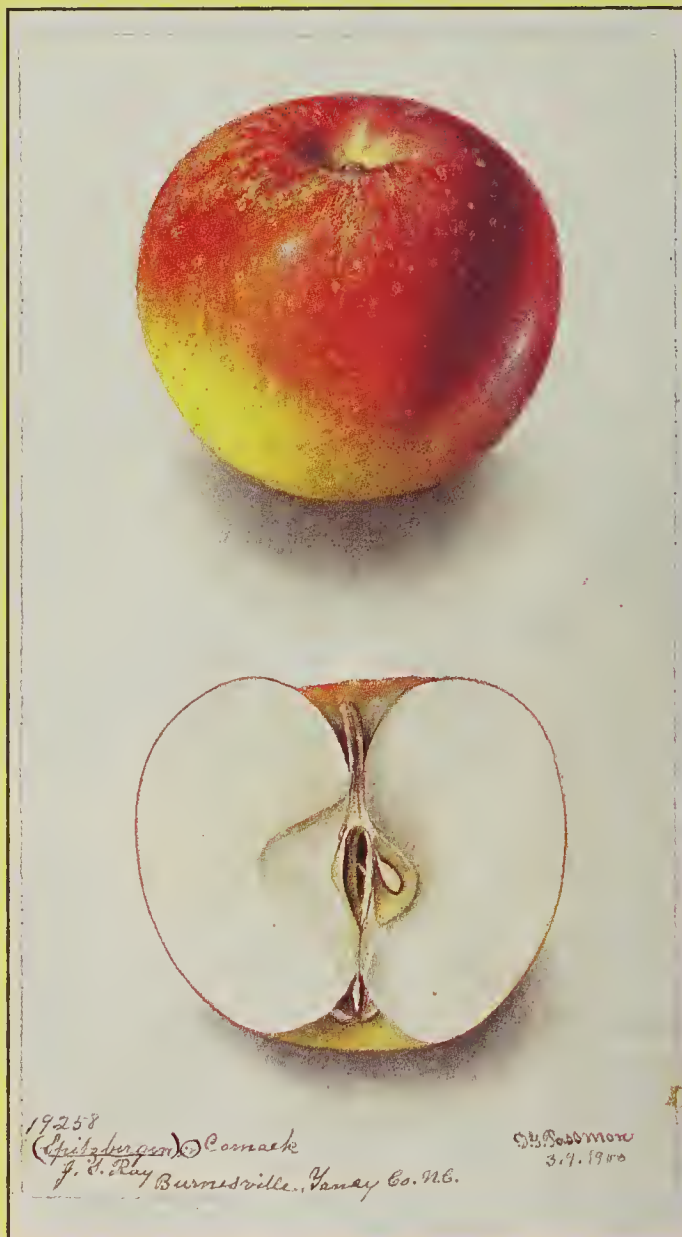
If you know of these or other old varieties, please call or write me: Lee Calhoun, Route 5, Box 128, Pittsboro, N.C. 27312. Phone: (919) 542-4480.

Also, feel free to contact me for information about nurseries that sell some old varieties. I can send you an eight-page list if you'll send me \$1. I also handle some custom grafting assignments.

Lee Calhoun has spent 10 years researching old varieties of Southern apples and trying to preserve those that are nearing extinction. A retired Army officer, he grew up in Mount Airy and has a degree in soil science from N.C. State University. He is completing a book that will include the history and descriptions of 1,600 varieties of Southern apples that existed before 1928.

Search List Top 25 Varieties

The 25 varieties most likely to be found are: Alamance Beauty, Battlefield, Camack's Sweet, Carolina Beauty, Clark's Pearmain, Cullawhee, Duckett, Eckel's Sweet June, Fanst's Winter, Golden Wilding, Guilford Red, Hall, Harris, Hockett's Sweet, Ice Cream, Julian, Junaluskee, Kittageskee, McCuller's Winter, McDowell's Sweet, Mountain Sprout, Pine Stump, Scotch Red, Van Hoy No Core, Wateree.



A 1900 illustration of a Camack in Yancey County.

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New zoo exhibit to open this fall

Desert creatures to invade Randolph County highlands

By Michael E.C. Gery
Associate Editor

By early fall, a part of Randolph County will be a desert. It will be hot and dry all the time. Cactus and mesquite will grow there. Roadrunner birds will run. Sidewinder snakes and chuckwalla lizards will slither along.

This is no joke.

A local newspaper would not exaggerate by running a front-page headline saying: "Gila Monster Seen South of Asheboro."

This fall is when the North Carolina Zoological Park expects to open its Sonora Desert habitat.

Like the African Pavilion which opened in 1984, the desert will be more or less indoors. A walkway will course through the arid environment so visitors can look at the lizards and tortoises, the yucca and cactus. Part of the pavilion will be dark, simulating a moonlit night in the Sonora region of northwest Mexico, and you'll see a ring-tailed cat hanging upside down from branches. Other residents will include burrowing kangaroo rats and vampire bats.

The desert will be the first exhibit to be completed in the ambitious



Making rocks in Sonora Desert at the North Carolina state zoo.

North America region under construction at the zoo today. The remainder of North America is expected to open during 1994.

Funding problems have delayed opening of North America for four years. The North Carolina Zoological Society, which has been raising funds for the park since 1968, made sure

the new exhibit would move forward despite state budget problems. As a result, construction of the North America habitats and animal holding areas continued through the delay. But it wasn't until summer 1991 that the state legislature appropriated \$5.8 million to complete North America and make way for the ani-

—photo by Michael E.C. Gery

imals and staffing. Also, state government approved a \$1.4 million increase in the zoo's operating budget to begin staffing the new region.

Visitors who have been to the zoo before will notice that North America will have its own entrance and admissions area, apart from the existing entrance to the Africa exhibits. The recent appropriation also will allow that entrance to be constructed, along with the accompanying restaurants, gift shops, restrooms, landscaping and interpretive graphics.

In keeping with the zoo's policy of building habitats to resemble native environments, North America will be a mix of desert, swamps, streams, sea coast, woodlands and plains. The weather in the Sonora Desert Pavilion will be zero percent humidity. Yet, in the Cypress Swamp, the alligators, ducks and egrets will enjoy humidity at close to 100 percent. In the Rocky Coast, polar bears will step carefully on artificial rocks crafted by zoo designers to replicate those found on the coast of the Pacific Northwest.

Most of the North American animals will be free to roam over spacious exhibits which comprise the North America region, just as the African animals roam over their spaces covering 300 acres.

And the plants will be as interesting as the animals.

Here is a list of what is expected to inhabit North America at the state zoo.

Cypress Swamp

The Swamp will seem a lot like the coastal plains of the Southeast, with bald cypress trees, holly, rhododendron, insect-eating pitcher plants, Venus fly traps and other plants. Visitors will be able to walk among



The lowland gorillas at the park are outdoors most of the year.

ducks, egrets and alligators. Cougars will roam inside a tent-like enclosure.

Marsh

The Marsh will be made of lagoons and sand dunes, with a boardwalk over watery wild rice and cattails, bullrushes and water lilies. Golden eagles will live there, as will local native wildfowl.

Streamside

Two Streamside exhibits will be indoor environments. One will show

bobcat and raccoon among dogwoods, pines, sumac, sassafras and poplar. The other will have trout and other game fish visible through a one-of-a-kind, curved acrylic panel. It will make the fish appear to swim overhead. Otters will be visible in the same way.

Three endangered plant gardens will make use of rare plants to explain issues of threatened species.

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—photo by Michael E.C. Gery

Rocky Coast

It will look like winter in the Rocky Coast, complete with polar bears and seals in chilled water and caves. Comical puffins will dive into the water, and sea lions will lounge about the rocks. There will be Arctic foxes and snowy owls, as well as a variety of marine animals visible nearby through glass windows.

Like those elsewhere in the zoo, the rocks are made by the zoo's own design team.

Great Plains

Ten acres are set aside as a prairie. Residents will include deer, elk and bison among prairie grass, pines, box elder and chokeberries.

North Woods

Near the Great Plains are the North Woods, which will be home to black bear, grizzly bear and gray wolf. These animals will have pools to swim in among waterfalls, aspen and spruce trees.

Touch and Learn Center

The Hardees Touch and Learn Center will allow children to pet domesticated animals and learn about their relationships with humans. Among the animals will be calves, goats, donkeys, rabbits and guinea pigs.



How much electricity does a 7,000-pound rhinoceros need?

Everything about the state zoo is big: 1,448 acres, 1,300 types of plants, 150 species of exotic birds, 200 African animals (including a 7,500-pound elephant, a 7,000-pound rhinoceros, and a 350-pound ostrich), and 600,000 visitors per year.

Energizing something this big carries its own exotic challenges. Weather inside the new North American Sonora Desert, for example, will have to be about 70 to 80 degrees year-round

with zero percent humidity. But the chilled waters and caves for polar bears and puffins will feel much different.

And a pause in electric service at the zoo could seriously disrupt the zoo's critical environment. Some animals will die if electricity to their habitat is cut for 40 minutes. Some plants wouldn't even have that long to live.

Randolph Electric Membership Corporation, the park's power supplier, has satisfied the zoo every step of the way since work began 20 years ago to build the zoo here.

"As a co-op, we have the flexibility to meet virtually any member's needs," says Bob McDuffie, Randolph's executive vice president and general manager.

Flexibility at the state zoo has required the co-op to bury more than six miles of power lines, run loop feeds, have a mobile substation nearby, and work closely with the habitat designers.

"Whatever it is, the zoo knows we can handle it right away," McDuffie says. "Our people and technology for that project are as good as any in the business. And we have been here all along, less than 10 miles down the road."

Randolph EMC is eager to see the zoo completed. Africa first opened in 1979 and was completed in 1984, after which progress was slow until this year. North America will be open in 1994. After North America, the zoo will return to Africa to upgrade existing exhibits and build new ones.

The electric co-op has made a sizable investment in the zoo and anticipates it will be a 3-megawatt service load, once it is completed. The changes in plans for construction make planning at the co-op difficult.

"The state zoo is a feather in the cap of the cooperative, the county and the state," McDuffie said. "Our members are proud of it. But we want to see it completed."

North Carolina expects its zoo to be the best in the world. Randolph EMC will be riding herd on it all the way.



—photo by H. Anasa Smith

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Co-op receives national accreditation

At Piedmont EMC, safety is everyone's concern

By Kim Whorton
Staff Writer

If folks around Hillsborough had listened closely, they might have heard the sound of a big sigh of relief coming from the headquarters of Piedmont Electric Membership Corporation several months ago.

After months of work to qualify, the cooperative's employees received notice that their safety program had received national accreditation. It's a coveted honor that comes only when a co-op has met rigorous standards.

In March, the EMC will be one of eight North Carolina co-ops that will take a bow at a statewide meeting in Raleigh, as they're recognized for having achieved accreditation in 1992. Piedmont will be cited for receiving its first certificate under the national program. The others will be cited for being re-accredited. (See related story, page 16.)

It's not easy to get such national recognition. For Piedmont EMC's 20,000 consumer-members of Orange, Person and Caswell counties, it offers some assurance that the utility's employees work under the safest possible conditions. It also helps the co-op qualify for reduced insurance rates.

North Carolina's electric cooperatives have distinguished themselves as some of the safest in the entire nation, thanks in part to the accreditation program of the National Rural Electric Cooperatives Association (NRECA), according to the association's coordinator of loss control, Felicia Thompson.

"North Carolina is one of the strongest states in terms of safety," she said. "Part of the reason is that, across the state, management is very supportive of cooperatives trying to fulfill safety accreditation requirements."

A total of 25 of the state's 28 co-ops have met those requirements.

Randy Brecheisen, Piedmont EMC's general manager, said the accreditation process provides an objective review of a co-op's efforts to make safety a top priority in all its operations.

He said, "We feel very strongly about our safety program. It's the



Piedmont EMC's lineman Randy Copeland and bucket truck both are outfitted for safety every day.

—photo by Michael E.C. Gery

most important responsibility we have to our employees. By putting our program through this formal process we felt we could help keep safety issues uppermost in our thoughts."

Every staff member was involved

To meet the demanding accreditation requirements, virtually every staff member was involved in the evaluation, which stretched over a period of several months.

"This process forces you to take a look at what you've been doing and why you're doing it. When you put your program before an evaluator you can become more objective and maybe find a better way of doing things," said Tony Cain, the EMC's manager of administrative services.

The accreditation program makes directors, managers and employees more aware of safety concerns, and also gives everyone in the co-op an opportunity to work together toward a common goal, he said.

"All our employees were part of the process. The end result is that everyone's efforts were needed, and employees felt a sense of purpose in accomplishing a common goal."

To become a candidate for accreditation, Piedmont registered a statement of intent with NRECA, then filed an application, reports on field observations and documentation covering co-op activities dating back three years.

A committee of safety specialists, representing cooperatives from across the country, evaluated Piedmont's voluminous file.

NRECA's field observations are conducted by representatives from at least three of the following organizations: the co-op itself, the co-op's insurance carrier, an accredited neighboring co-op, NRECA and the state association's safety department and safety advisory committee.

Observers at Piedmont were NRECA's Felicia Thompson; Tommy Greer, director of job training and

Accreditation offers some assurance that the utility's employees work under the safest possible conditions. It also helps the co-op qualify for reduced insurance rates.

safety at Carolina Electric Cooperatives' Raleigh office; Wallace Wilson, Piedmont EMC's safety coordinator; and Walt Hudnell, a job training and safety specialist with Carolina Electric Cooperatives.

The team evaluated 22 separate physical areas ranging from aerial devices (man-lifts) to storage areas. Members of the group visited substations, inspected buildings for hazards, examined work vehicles and surveyed underground lines. Candid discussion between observers and system personnel was encouraged.

The evaluation group thoroughly examined Piedmont's policies, procedures, rules and records, paying particular attention to safety and loss control, employee physicals and health programs. And they studied

the standard operating procedures regarding accidents, safety suggestions and the use of protective devices.

The records reviewed included board minutes, safety reports, details of work-related disabilities, employee education and training materials, vehicle maintenance logs, consumer safety education, and reports on the routine testing of rubber gloves.

If there had been an accident, the team also would have checked records of the follow-up investigation.

In the end, the committee ruled that Piedmont EMC had met or exceeded all requirements for safety and loss control practices, and issued the co-op a Certificate of Excellence for Safety.

Cooperatives that go through the process and achieve a rating below 70 percent are advised about loss control practices and given an opportunity to re-apply for accreditation the following year.

Tommy Greer, director of Job Training and Safety at the state office of Carolina Electric Cooperatives, said, "The main goal of the accreditation program is to eliminate or greatly reduce losses, whether personal losses or property losses. It's vitally important.

"Fortunately the leaders of the co-ops across the state share our feeling about it. They've emphasized it and the results have given our EMCs a first-rate reputation in the national safety accreditation program. We're extremely proud of that record. I hope the co-ops' consumers realize that this is no small accomplishment."

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25 EMCs have achieved national safety accreditation

Ninety percent of North Carolina's Electric Membership Corporations have been awarded national certificates of accreditation for their employee safety programs.

In 1992, Piedmont EMC, Hillsborough, became the 25th co-op to qualify for accreditation when it received its first certificate.

Seven others were reaccruited. Central EMC, Sanford, received its second accreditation. Surry-Yadkin EMC, Dobson, and Wake EMC, Wake Forest, each received their fifth accreditation. Jones-Onslow EMC, Jacksonville, and Pee Dee EMC, Wadesboro, each received their sixth accreditation. Davidson EMC, Lexington, and Randolph EMC, Asheboro, each received their seventh certificate.

The accreditation is issued by the National Rural Electric Cooperative Association, which reviews each co-op's employee safety efforts every three years after the initial certificate is issued.

The 17 other accredited co-ops are:

Albemarle EMC, Hertford
Blue Ridge EMC, Lenoir
Brunswick EMC, Shallotte
Carteret-Craven EMC, Morehead City
Crescent EMC, Statesville
Edgecombe-Martin County EMC, Tarboro
Four County EMC, Burgaw
Halifax EMC, Enfield
Harkers Island EMC, Harkers Island
Haywood EMC, Waynesville
Lumbee River EMC, Red Springs
Pitt & Greene EMC, Farmville
Roanoke EMC, Rich Square
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North Carolina youths win national 4-H scholarships ... Farm co-op links up with insurance company.

Tar Heel 4-H'ers win national scholarships

North Carolina's 40-member delegation won 12 scholarships valued at \$15,000 at the 71st National 4-H Congress in December in Chicago.

The Tar Heel 4-H'ers were among 252 national and regional winners who shared \$304,000 in scholarship funds. The congress was planned and conducted by the National 4-H Council in cooperation with the Cooperative Extension Services of the state land-grant universities.

Winners of \$1,500 scholarships, their programs and sponsors were:

- Roy Blankenship, Reidsville, energy management, Amoco Foundation;
- Jason Hatley, Hurdle Mills, citizenship, the Coca-Cola Foundation;
- Andrea Mullins, Horse Shoe, leadership, Bridgestone/Firestone Trust Fund;
- Samantha Quintero, Barco, food/nutrition, Kraft General Foods;
- Susan Stille, Trenton, fitness leadership, Nestle USA;
- Brandon Williams, Asheboro, entomology, Miles Inc.

Winners of \$1,000 scholarships were:

- Nacita Cooper, Shawboro, safety, GMC Truck Division, General Motors;
- Meredith-Leigh Craig, Kinston, health, The French Foundation for Alzheimer Research;
- Lydia Ann Furr, Morganton, animal science, Continental Grain Co., Wayne Feed Division;
- Jerome Hatley, Hurdle Mills, swine, National Pork Producers Council and Bob Evans Farms/Owens Country Sausage;

• Julie Myers, Ruffin, dairy foods, Friends of National 4-H Council;

• Deana Lynn Robinson, Mount Gilead, poultry, Poultry Industry Associates.

UNC-G awarded grant for math and science consortium

A three-year, \$3.4 million federal grant has been awarded to the School of Education at the University of North Carolina at Greensboro to help improve student performance and learning in mathematics and science in the Southeast.

The proposed Regional Mathematics and Science Consortium will be designed to aid students in grades K-12 in six states: Alabama, Florida, Georgia, Mississippi, North Carolina and South Carolina.

The project will operate under the School of Education's Southeastern Regional Vision for Education (SERVE), which operates as one of 10 federally funded regional education laboratories across the U.S. It has offices in Greensboro, Tallahassee, Fla., Atlanta, Ga., and Cleveland, Miss.

Dean Edward Uprichard of the School of Education said Dorothy Routh, deputy director of SERVE, merits special attention for doing the work that led to the award.

All four of SERVE's regional offices will be providing services in math and science under the new grant. The program will be coordinated through the Tallahassee, Fla., office and is under the general direction of Routh.

Routh said that on average students in the Southeast have the lowest scores in mathematics and science in the nation.

States in the region have enacted rigorous graduation requirements, but "there is a considerable gap between student performance and expectations," Routh said.

Toward that end, Routh said the new consortium will seek to identify some of the best math and science programs in the Southeast and disseminate information about them throughout the region. Professional development opportunities also will

be provided for educators.

Routh said one of the projects will be to develop a videotape that will show the wide range of career options associated with the study of math and science.

The Regional Math and Science Consortium has two basic purposes:

- To disseminate exemplary mathematics and science education instructional materials;
- To provide technical assistance

for the implementation of teaching methods and assessment tools for use by elementary and secondary school students, teachers and administrators.

A coordinator for the math and science consortium will be employed, along with approximately eight other people under the grant. The new employees will include four field people who will provide technical assistance to school districts in the areas of math and science.

1993 calendar lists events at state historic sites

The 1993 state historic sites calendar reveals there's a special activity for everyone at North Carolina's 24 state historic sites.

The sites and their special programs commemorate North Carolina's role in several nationally important events as well as depict life as it was in earlier days.

From Civil War and Revolutionary living history to a 19th century working farm, and visits to a 20th century boarding house, North Carolina's state historic sites have a varied range of activities planned for 1993.

Special activities during the year will include various workshops and seminars, and the spring "regional history bowls," culminating in the naming of a state champion in Raleigh in May.

Among the year's highlights will be the observance of the anniversary of the Battle of Bentonville. The March 20-21 living history presentation will include camp life, infantry drills, weapons demonstrations and aspects of life on the

southern home front in 1865.

On April 11-12, Historic Halifax will observe the anniversary of the Halifax Resolves, when North Carolina was the first to concur with independence. A patriotic program, preservation awards and historic house tours celebrate this first colony-wide declaration of independence from England.

In April at Durham's Bennett Place, Gen. W. T. Sherman and Gen. Joseph E. Johnston will be hammering out surrender negotiations to end the Civil War; and throughout the year at Duke Homestead, visi-

tors can see tobacco culture along with living history demonstrations of life on an 1870s Piedmont farm.

At Manteo, a 16th century style sailing ship takes visitors back to the early English explorers; near Concord, there are shafts of an early gold mine to explore; and in Spencer, visitors can see and ride trains with steam and diesel locomotives.

For a free copy of the 1993 calendar, contact the Historic Sites Section at 109 E. Jones St., Raleigh N.C. 27601-2807. Phone: (919) 733-7862.



Re-enactment of the Battle of Bentonville. The battle's anniversary will be marked this year on March 20-21.

—photo by David Lathan

Co-op America lists 1,000 businesses in "Green Pages"

.....

The Co-op America Business Network has published a new "green" alternative to the yellow pages.

Co-op America's National Green Pages lists 1,000 of "the most innovative and truly green companies in the U.S.," according to Bart Church, director of the Co-op America Business Network.

It contains such businesses as The Body Shop, Ben & Jerry's, Aveda, and South Shore Bank, as well as many small, community-based businesses.

"Co-op America's National Green Pages was created to help the millions of concerned consumers find and support companies that are committed to doing business in a socially and environmentally responsible way, and to provide visibility for the burgeoning growth of green businesses," Church said.

The companies listed in Co-op America's National Green Pages account for more than \$1 billion in annual sales and employ 16,000 people.

Examples of green businesses listed include:

- Earth Care Paper Company of Madison, Wisconsin, which produces post-consumer waste recycled paper products.
- Harlem Textile Works of New York City, which manufactures textile products while providing an art workshop for inner city youth.
- IKWE of Ponsfor, Minnesota, a Native American marketing collective that harvests and sells organic wild rice and markets Native American baskets, beadwork, and quilts.

Over 80 categories of businesses and organizations are listed.

Each business listed in Co-op America's National Green Pages has pledged to meet the needs of their communities, customers, workers and the environment, and backed up this pledge with specific information on how the pledge is implemented in day-to-day activities. Co-op America monitors the progress of these businesses to assure their continuing commitment to creating sustainable systems.

Copies of Co-op America's National Green Pages are available for \$4.95 by calling (800) 424-2667 or sending a check to: Co-op America, 1850 M St. NW, Suite 700, Washington, D.C. 20036.

Southern States signs pact with Nationwide Insurance

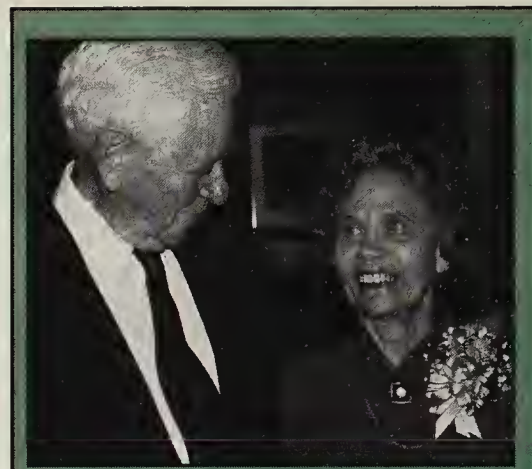
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Southern States Cooperative and Nationwide Insurance have signed a sponsor agreement that calls for the two organizations to work on mutually beneficial services.

The announcement was made by D. Richard McFerson, chief executive officer of Nationwide, and Gene A. James, president and chief executive officer of the farm cooperative based in Richmond, Va.

Initial sponsorship activities will be focused in Virginia, where Southern States will assist Nationwide in publicizing the insurer's products and services. The sponsor agreement will not affect operation of the Southern States Insurance Exchange, which provides commercial insurance to some Southern States member co-ops and dealers.

Began as an auto insurer for a group of Ohio farmers in 1926,



—photo by Ernestine Plemmons

Florence Ramsey marks 50 years at French Broad

.....

Florence M. Ramsey, office manager at French Broad Electric Membership Corporation, Marshall, gets a hug of congratulations from John Corbett, president of the co-op's board, as she celebrated her half-a-century as a co-op employee. About 200 friends, family and co-workers attended a reception in her honor on Dec. 18, 1992—when she officially completed 50 years on the job. She is believed to be the first employee of a North Carolina co-op to achieve this milestone. Mrs. Ramsey became a French Broad EMC employee when the co-op acquired Northwest Carolina Utilities, where she had been employed for two years.

Nationwide today offers life, health, auto, fire and commercial insurance, as well as financial services products.

Southern States, founded in 1923, is a farmers' cooperative that buys, processes and manufactures feeds, seeds, fertilizers, fuels, and farm, home, and garden supplies for farm and non-farm people. Southern States and the co-ops that it manages have more than 370,000 members.

Nationwide has sponsor agreements with five other organizations: the Ohio Farm Bureau, Maryland

Farm Bureau, Ruralite Service of Forest Grove, Ore., Farmland Industries of Kansas City, Mo., and the Pennsylvania Farmers Association.

Three men honored for conservation efforts

The late father of North Carolina Agriculture Commissioner Jim Graham was one of three men inducted recently into the Hall of Fame of the N.C. Association of Soil and Water Conservation Districts.

The inductees were the late James T. Graham of Cleveland, Brady Angell of Mocksville and William Sullivan of Mount Olive. They were honored at a ceremony in Asheville recognizing their contributions to the protection and improvement of North Carolina's natural resources.

J.T. Graham was supervisor of the Soil and Water Conservation Service in Rowan County from 1946 to 1972. He served as association president in 1953, and as a member of the N.C. Soil and Water Conservation Commission from 1952 through 1954.

In 1956, Graham was recognized by President Dwight D. Eisenhower for his work on the Third Creek Watershed Project in Alexander, Iredell and Rowan counties. The watershed designation was North Carolina's first and among the first three in the United States.

Brady Angell served as supervisor of the Soil and Water Conservation Districts for Davie and Forsyth counties from 1941 through 1992. He served as president of the N.C. Association of Soil and Water Conservation Districts in 1957 and was honored with the group's President's Award in 1976.

Angell was chairman of the Davie County Soil and Water Conservation District from 1972 until 1975.

William C. Sullivan has served as supervisor of Duplin County's Soil and Water Conservation Districts since 1962. He was president of the N.C. Association of Soil and Water Conservation Districts in 1970, and was honored with the group's

President's Award in 1977. Sullivan served on the National Association of Conservation Districts Council from 1972 to 1988. In addition, he was a member of the N.C. Environmental Management Commission from 1979 to 1985, and was presented the Soil and Water Conservation Society's Distinguished Service Award in 1978.



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SCOTT OSBORNE - NCWRC Big Game Program Coordinator	12:30	
ROGER RAGLIN - Producer Of "Best Kept Secrets" Videos	3:30	10:30
GARY SEFTON - Deer Vocabulary & Calling Expert	11:00	1:30

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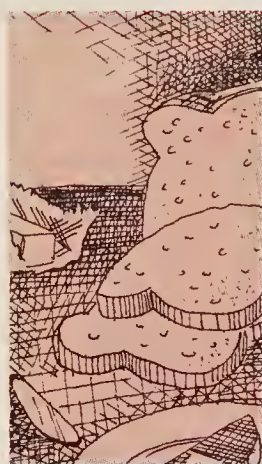
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*Submitted by Norma B. Paschal,
Siler City*

- 1 package white angel food cake mix
- ½ package (2.8-ounce size) whipped topping mix (1 envelope)
- 2 cartons (6 ounces each) nonfat strawberry yogurt
- 1 pint strawberries, sliced
- 3 kiwifruit, sliced
- ¼ cup slivered almonds, toasted*

Bake and cool cake as directed on package. Cut cake vertically into halves. Freeze one-half for future use. Tear other half into about ¾-inch pieces. Prepare topping mix as directed on package, except use skim milk. Layer, half each, of the cake

pieces, yogurt, whipped topping, strawberries and kiwifruit in 2-quart serving bowl, repeat. Sprinkle with almonds. Garnish with whole strawberries if desired. Refrigerate until firm, at least 2 hours. (12 servings.)

**To toast almonds, heat oven to 350 degrees. Bake in ungreased pan, stirring occasionally, until golden brown, about 10 minutes.*

Want to share recipes?

If you would like to share a recipe with Country Kitchen, send it to *Carolina Country*, P.O. Box 27306, Raleigh, N.C. 27611.

We pay \$5 for recipes we publish and present each monthly winner a set of 50 recipe cards featuring a reprint of the published recipe.



A Glimpse of "Light Living"

"Light Living," the cookbook published by the Women's Committee of North Carolina's rural electric cooperatives, is still available. The material in this cookbook was provided by Healthworks, a division of Wake Medical Center in Raleigh, with contributions from Jean Perry Spodnik and David P. Cogan, M.D., co-authors of the "35-plus Good Health Guide for Women."

The 192-page softcover cookbook includes more than 300 recipes contributed by members of local co-op women's committees across the state.

Also included in this publication are tips for dieting, exercises and information on nutrition.

Proceeds from the sale of the spiral-bound cookbook will support three college scholarships that are awarded annually. To order a copy, complete the coupon at right and enclose check or money order for \$12.95 per copy, including postage and handling.

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State Archives needs your help in finding graveyards

By Peggy Howe

If you enjoy discovering past lives of your community, now is the time to join an official survey of long-forgotten North Carolina cemeteries.

"We are losing these cemeteries, and with them their statistics," says Doris Flowers, who coordinates the Cemetery Survey for the State Archives.

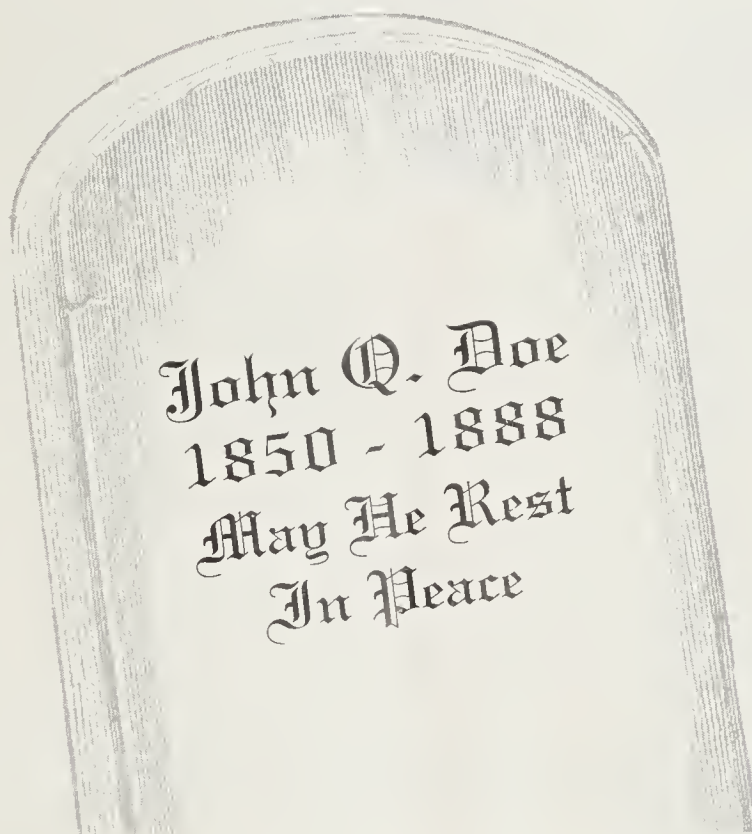
Anyone may participate in the project. Volunteers find themselves in historic, often forgotten community and family cemeteries, where they find and record headstone epitaphs and other information.

Flowers will provide how-to information and standard survey forms to be completed and returned to the State Archives for permanent filing. These records, along with U.S. Geological Survey maps which pinpoint the exact location of each cemetery, are then made available for research.

At present, 94 of the state's 100 counties are conducting cemetery surveys, to some extent, to record all

cemeteries containing graves dated before 1913. Because birth and death certificates were not kept officially in North Carolina before 1913, the only record of many North Carolinians lay in the graveyards with their remains.

Most counties have a coordinator. Interested volunteers may contact



Flowers for the names of local coordinators.

Counties which have not yet begun surveys are Chowan, Clay, Craven, McDowell, Macon and Pender.

Counties involved early were Guil-

ford, Halifax, Hyde, Lenoir, Madison, Moore and Rutherford. Their primary goal was to locate cemeteries to determine their condition and status, either as abandoned or maintained.

The project was begun in 1979 when the N.C. General Assembly created the Abandoned Cemeteries Study Committee to determine the condition of deserted cemeteries throughout the state. The committee's goal was to strengthen protective legislation for abandoned cemeteries and unmarked graves.

By 1981, the committee completed its initial work and presented its findings to the General Assembly which resulted in a strengthening of the laws that protect cemeteries. Penalties for desecrating graves were strengthened, grave removal guidelines were revised and perpetual care trust funds were established.

Despite this protective legislation, there are still many unmarked burials in the state, especially in the mountains and rural areas. Many were marked originally with wood markers, long rotted away, and may be the graves of slaves or Indians.

Flowers says that graves often have no marker at all—just a depression in the ground, and often in the woods.

In 1984, volunteers began recording vital information from tombstones. Maps and photographs were included whenever possible.

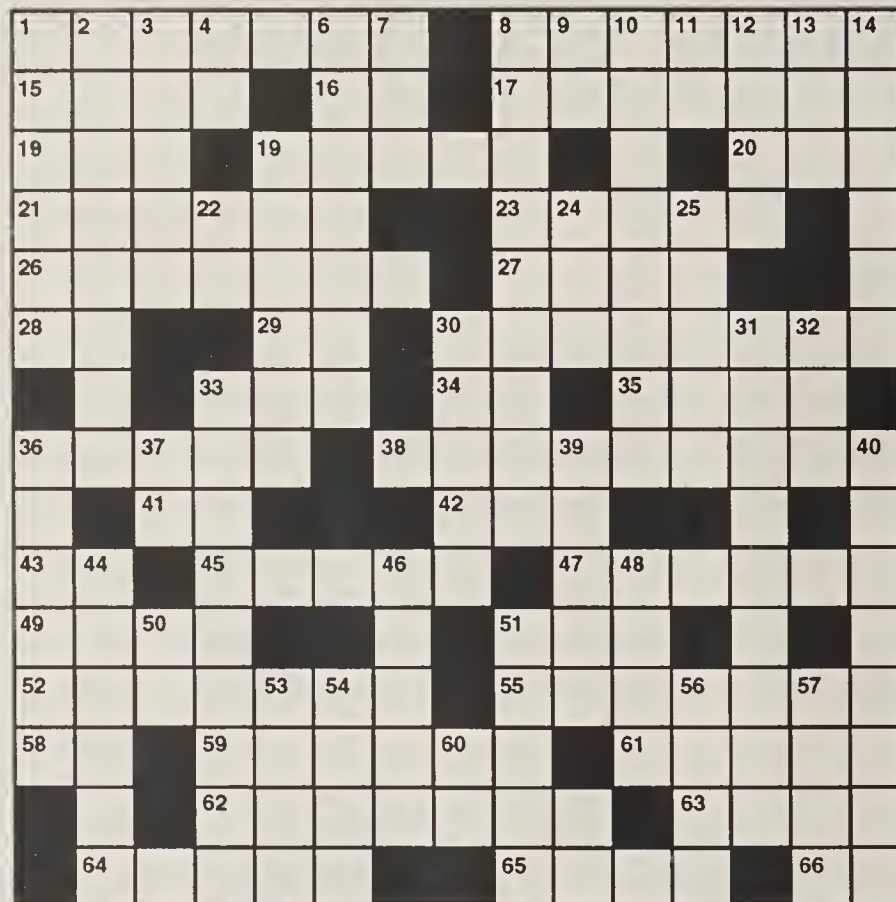
Historical and genealogical societies have taken the lead in the volunteer project. Some of them have published their findings.

For more information, contact Donna Flowers at the N.C. State Archives, 109 E. Jones St., Raleigh, N.C. 27601-2807. Phone: (919) 733-5722.

CROSSWIRES

ACROSS

1. Hoofed beast, also aircraft
8. To break into two parts
15. Cookie, Uncle Tom
16. Medical professional
17. Relaxation
18. Engine piece that imparts motion
19. Greeting
20. Holds your beer
21. Morphine is one
23. German dive bomber
26. Good for you
27. Great deed doer
28. Granite State, abbrev.
29. Not out
30. Opposite of angry: two words
33. Kramden drove one
34. Mobile home
35. Relating to the sky
36. Cure
38. What more married women are doing: two words
41. Where to go after the fall, abbrev.
42. French for exclamation, especially from the heart.
43. After midnight
45. Stretchy fabric
47. Wise Greek during Trojan War



49. Heavy work
51. Approximately when we arrive
52. Pitcher with most wins ever in a season
55. Strangle
58. Surprise, joy or doubt
59. Distant celestial object
61. Not gregarious
62. Many, slang
63. Monster
64. To steal
65. Lawsuit
66. Image Polisher, abbrev.

DOWN

1. Chrysalis
2. Indian tribe
3. Lay aside
4. Moon of Jupiter, Zeus' lover
6. French city
7. Card game
8. Abnormal electrical discharge
9. As in, Latin
10. Geological age after Ordovician
11. Hitler's Blackshirts
12. Town in Mississippi
13. Heavy Metal Rock
14. Cancel
19. Treehouse
22. Month in Jewish Calendar
24. Battle in Vietnam
25. Asian nation
30. National Association
31. Middle name of Indian fighter
32. Single digit
33. Girly show
36. Grab
37. In the matter of...abbrev.
39. Columbus ship
40. Conjuror
44. Indian tribe, tonsorial option
46. Where fowls come home
48. Third rank nobleman
50. Myself
51. Tall bird
53. In the road, on a log
54. Engrossed
56. Where it begins
57. Maryland grad, slang
60. Scottish one

See solution to *Crosswires* on page 25.



stuttering and your child: questions and answers

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"Home Is Where the Heart Is" (pictured) is one of 10 designs featured in the guidebook. Step-by-step directions, full-size traceable patterns and complete materials' lists help you through each stage of preparation, painting and finishing of the projects you select.

Some of the materials you'll need include wood sealer, brushes, stain, sandpaper, tracing paper, water-based varnish and paint. With your supplies assembled, simply prepare a wood surface, trace the design, and paint according to the directions and handy color chart. Other designs can enhance children's furniture, bread boxes, etc., including "Now I Lay Me Down To Sleep," "Child At Play" and eight more.

To obtain "Memories We Have Shared and Loved." #MM1301, send \$5.75.

Tole Painting Guidebook

Our new 32-page, full-color guidebook is a beginner's guide that will teach you



The "Home Is Where The Heart Is" design from the "Memories We Have Shared and Loved" Guidebook.



The "Bunny Love Welcome Board" design from "Beginner's Guide to Brush Strokes."

tole painting step-by-step.

Lessons on properly loading your brushes with paint, brush strokes and painting techniques, as well as how to prepare your wood surface for painting are included. There are nine painting projects and traceable patterns for a candle box, foot rocker, jar lids and chopping board.

Wood shapes can be purchased ready-made or cut from patterns. To make the "Bunny Love Welcome Board" shown here, prepare the wood as directed and apply a base coat to the front and back surfaces. Next, transfer the pattern design to the front of the plaque and

paint as directed. When it's dry, remove any remaining pattern lines and apply a water-base varnish.

To obtain "Beginner's Guide To Brush Strokes." #P8410, send \$4.50.

Also available is our 112-page catalog "Patterns For Better Living," picturing over 700 woodworking and handicraft projects for \$3.95.

All prices include postage and handling. California residents should add 6 percent sales tax.

Send your check to **Lois Goodson, c/o Carolina Country**, P.O. Box 2383, Van Nuys, CA 91409-2383.

Solution to Crosswires on page 24.

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"Bethel's Bounty"



The women of Bethel Presbyterian Church in Davidson have published their third cookbook in the church's 163-year history.



The 335-page, indexed cookbook offers favorite recipes from members of the church, including special "heritage recipes" that have appeared in earlier cookbooks.

Other recipes include quick-and-easy dishes especially for busy cooks, recipes with a foreign flavor and entries that are pure Southern cooking.

Proceeds from the sale of the cookbook will benefit the Celeste McShane Gallent Family Life Center, which was dedicated in December. The center houses Sunday school classrooms, the pastor's study, the secretary's office, a large room with a stage and a modern kitchen.

The center was built with funds left to the church by the late Dr. and

Mrs. John Bryant Gallent. It was named in honor of the Gallents' daughter, who died as an infant.

To order send \$14.95 plus \$2.95 postage and handling to Bethel Presbyterian Women, 19920 Bethel Church Road, Davidson, N.C. 28036.

The recipes reprinted here were suggested by Julia Smith of Huntersville, who is serving as sales manager for the cookbook project.

She said the Beef Salad recipe was submitted by caterer Dianne McConnell.

"It's a very good recipe when you want something special."

Beef Salad

1½ pounds London Broil
½ pound fresh mozzarella cheese
1 red pepper, julienne strips
1 small red onion, thinly sliced
¾ cup garlic dressing
Lettuce and tomatoes as desired

Marinade for beef:

½ cup red wine vinegar
¼ cup olive oil
¼ cup soy sauce

Garlic dressing:

1 egg yolk
⅓ cup red wine vinegar
1 tablespoon sugar
1 cup good olive oil
1 tablespoon chopped garlic
Salt and pepper to taste
Marinate beef for at least one

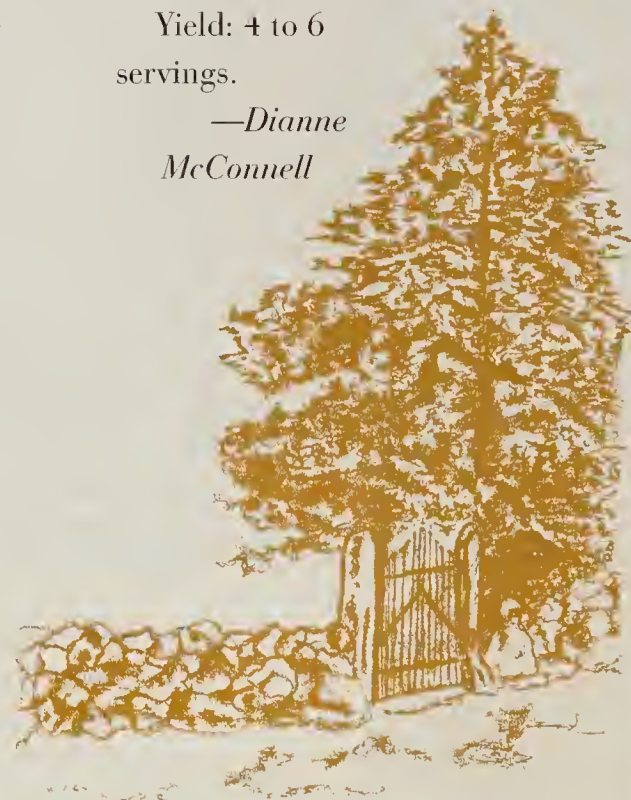
hour, or overnight. Preheat oven to 350 degrees. Place beef on rack in roasting pan and cook 35-40 minutes until medium rare (still pink in center). Allow to cool. Slice beef in thick julienne strips. Mix with remaining ingredients, including dressing. Serve right away or refrigerate, allowing to return to room temperature before serving.

Garlic Dressing: Place egg yolk, vinegar, sugar, salt and pepper in bowl of food processor. With motor turning, gradually add oil until thick and creamy.

Note: This recipe is very flexible. Add cooked red potatoes to make a complete main course; change the type of cheese, add tomatoes and lettuce just before serving, etc.

Yield: 4 to 6 servings.

—Dianne
McConnell





Deluxe Macaroni and Cheese

1 (8-ounce) box elbow macaroni
2 cups cream style cottage cheese
1 (8-ounce) carton sour cream
1 egg slightly beaten
¾ teaspoon salt
Dash pepper
2 cups (8 ounces) sharp cheddar cheese, shredded
Paprika

Cook macaroni per package directions, rinse and set aside. Combine next six ingredients; add macaroni and stir well. Spoon into lightly greased 2-quart casserole. Sprinkle with paprika and bake at 350 degrees for 45 minutes.

Yield: 6 to 8 servings.

—Bonnie Busick Fish

Sour Cream Banana Pudding

2 (3-ounce) packages instant vanilla pudding
2 boxes Nilla vanilla wafers
6 to 8 bananas

5 cups milk
8 ounces sour cream
12 ounces Cool Whip

Mix pudding and milk together until it starts to thicken. Add sour cream and a little less than 1/2 container of Cool Whip (reserve the remaining Cool Whip for topping). Make layers, beginning with vanilla wafers, then bananas, then remaining Cool Whip. Sprinkle vanilla wafer crumbs over Cool Whip for decoration.

Note: This makes a large quantity. The top of a Tupperware sheet cake carrier is ideal for this amount. A Corning Ware roasting dish is also a good size.

Yield: 20-24 servings.

—Ethel P. Sellers, Kitty Noles

All illustrations in "Bethel's Bounty" are the work of cookbook committee member Ann Moretz. Some are reprinted here.

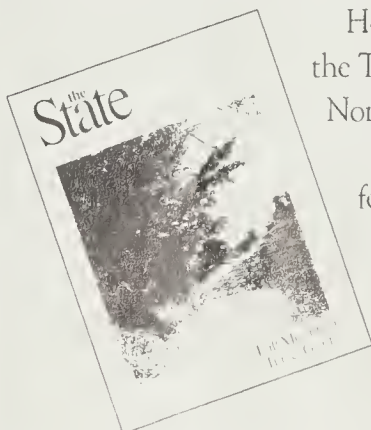
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Hank's Gardening Guide

by Hank Smith



It's time to make preparations for spring gardening.

Days are short, and we're in the midst of the getting-ready-for-gardening period. It's only a few weeks until we will see spring bulbs showing color. Now's the time to get annuals ready for planting outdoors with the arrival of warm weather.

It's time to take root cuttings of deciduous plants as well as houseplants. Let's not forget pruning, last-minute dormant spraying for insect control, and general cleanup before the burst of tender new growth.

Houseplants become garden plants

Winter houseplants of coleus, impatiens and geranium often become overgrown and leggy by mid-winter. You can take cuttings of these now.

Place root cuttings in moist builder's sand or good clean garden soil which has been mixed with about half sand. Do not use seashore sand because of its salt content.

Strong root systems will develop before weather warms in the spring. You'll

welcome these new plants in your flower beds. They'll add much color this summer.

Next fall, don't forget to pot up several of your favorites to bring indoors. This way, you'll be sure to have desired colors for coordinated accents in 1994.



Vegetables

On mild days, begin renewing garden soil. Add a 4-inch layer of organic matter, turning it under, 8 to 12 inches deep.

Since organic matter breaks down continually, it should be an annual addition to the soil. Organic matter improves drainage and fertility.

If you're a first-time vegetable grower, choose a sunny, well drained location which is away from trees and shrubs with demanding roots.

Early in March it should be safe to plant lettuce, spinach, onions, radishes, turnips, English peas and radishes.

Pruning

Complete the job of pruning trees and shrubs before new spring growth begins. This includes deciduous and evergreen foliage, as well as summer-flowering plants.

If plants have suffered severe freeze damage, delay pruning until new growth is evident, so you will be certain to remove all damaged branches. Spring-flowering plants should be pruned only after blooming is completed.

Leaves can harm camellias

Camellia blooms, growing close to the stem and surrounded by sturdy foliage, sometimes are bruised by their own leaves. Wind moves leaves and blossoms around, causing leaves to scar lower petals.

Sometimes in cutting a bloom from the plant, it is almost impossible to prevent leaves from rubbing against the flower. An easy way to prevent leaf bruises is to pull back a cluster of several leaves growing close to the bloom and clamp them together with a clothespin. After the flower is cut and placed in water, the clothespin may be removed.



Prune evergreens when transplanting

Moving shrubs or trees to a new location? Evergreen trees and shrubs will fare better if you prune their top growth a bit. Regardless of how carefully roots are dug, the plant suffers a degree of shock from having been disturbed.

It's just as important to cut back the plant as it is to get a large ball of earth with the roots. Reducing the twig and leaf growth by one-fourth to one-third will make it easier for the plant to adapt to its new home. As the roots begin to function again, they won't have more above-ground growth than they can support.

If you desire a spreading type of growth, cut the tip shoot from the plant. If the plant is a species with several branches, clip the tip of each branch. This reduces outward growth and encourages the development of side shoots which form a more compact plant.

All broadleaf evergreen trees should be partially defoliated when transplanted. Clip away all leaves from Southern magnolia. Remove about half the leaves from cleyera and the native hollies including native yaupon holly. You'll want to remove only a few leaves from camellias and azaleas.

Late winter tips

1. Make plans to seed or reseed fescue lawns in late February or early March if this was not done last fall.

2. If you plant seed indoors, be sure to provide plenty of light so they don't become leggy.

3. At spring planting time, temper seedlings by moving them to a protected spot, such as a garage or outbuilding for a few days. Better yet, put them in a cold frame. Let seedlings garden off until weather is mild enough for outside planting.

4. Use ashes from the fireplace to work around iris, lilac, clematis, and roses. Also, work ashes around peonies, taking care not to break buds that may be near the soil surface.

5. Cultivate beds carefully to remove winter weeds. Do this when soil is moist but not frozen.

6. Put up nesting boxes for bluebirds. They choose home sites early in March.

7. Fertilize tulips and daffodils with 8-8-8 or 10-10-10 when growth tips emerge from the soil. Apply two pounds per 1,000 square feet.

8. Camellias, ligustrum and azaleas often show reddish-brown foliage which may appear dead. This is normal in some varieties. Scratch the bark; if it is green beneath, don't prune.

9. Protect plants from extreme cold by keeping them well mulched and well watered.

10. Plant peppers, tomatoes, broccoli, and eggplant indoors for later transplanting to the vegetable garden.

11. Fertilize perennials, trees, and shrubs. Apply lightly. Don't let fertilizer contact stems or trunks of plants, because it could burn.

12. If available, apply old cow manure to rose plantings.

Bushy pines

In many landscapes, a low-growing pine is preferred to a tall specimen. To encourage a pine tree to develop into a compact habit of growth, begin pruning when the tree is small.

Pinch off or cut part of the new "candle" growth which soon will appear at the tips of the branches. This tender shoot extends from the growth bud early in the growth season. Yearly pruning of this type helps maintain a compact growing habit.

Forcing blooms

Branches of spring-flowering trees and shrubs such as forsythia (yellow bells), flowering quince, pussy willow, flowering peach and almond, can be brought indoors and forced into bloom.

Place branches in water and keep them in a cool room with subdued light. Flowers should open in two or three weeks in their natural color.

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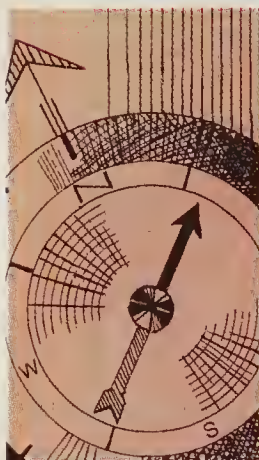
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**The Southern
Spring Show ...
Antiques in
Burlington ...
Audubon bird
prints in Raleigh**

Unifour Parade of Gems slated in Hickory

The Catawba Valley Gem and Mineral Club will host the 23rd annual "Unifour Parade of Gems" March 19-21 at the Clement Center in Hickory.

The center is on 20th Street N.W. off Highway 321 North.

The show will be open from 9 a.m. to 8 p.m. on March 19, from 9 a.m. to 7 p.m. on March 20 and from 12:30 to 5 p.m. on March 21.

For more information, contact the show chairman, Glenn R. Bolick, P.O. Box 2521, Hickory, N.C. 28603.

Mint Museum exhibits native American art

The Mint Museum in Charlotte is exhibiting art of native Americans through March 21. The show, "Native American Tradition," is composed of art from the collection of the Lowe Art Museum at the University of Miami.



A native American baby bonnet, 1890.

Featured are about 130 examples of art made by aboriginal people of the Eastern Woodlands, Southeast, Plains, Southwest, West and Northwest.

For information about the exhibit and accompanying educational programs, contact the Mint Museum at 2730 Randolph Road, Charlotte, N.C. 28207. Phone: (704) 337-2000.

Spring Show exhibit: "Naturally Wonder Full"

The 1993 Southern Spring Show in Charlotte, Feb. 27 to March 7, will feature an exhibit entitled "Naturally Wonder Full" from the North Carolina Division of Parks and Recreation. The show will feature an array of exhibitors displaying goods and services ranging from landscaping to fine arts and crafts.

A main attraction of this year's show will be the Designer House South, an 11-room house sur-

rounded by gardens to demonstrate how you can spruce up your home inside and out.

Other attractions include an Ikebana International garden, a landscape and interior sculpture pavilion, a gardener's marketplace with plants, a variety of home furnishings, and over 200 professional art and craft exhibits.

Jim Wilson, host of PBS's "Victory Garden South," will be at the show March 5-7.

The show will be open Monday through Saturday from 10 a.m. to 9 p.m. and Sundays from 10 a.m. to 6 p.m. at Charlotte's Merchandise Mart, 2500 East Independence Blvd. Tickets are \$6 for adults, children ages 6 through 12 are admitted for \$3, and children under 6 are admitted free.



A regional orchid show is one of the popular attractions at the Southern Spring Show.

Celebrate the coast at "Save Our Sounds" April 3-4

The fifth annual Save Our Sounds Coastal Celebration will be sponsored by WRAL-TV on April 3 and 4 in the Kerr Scott Building at the State Fairgrounds in Raleigh.

The two-day event is aimed at preserving North Carolina's coastal resources and heritage.

Many activities are designed to appeal to children. They include a touch

tank with live sea creatures, making crafts using shells and sand, and a treasure hunt. Each child attending will receive a free tree seedling to plant.

Adults may enjoy craft demonstrations, balladeers, and fresh seafoods.

For more information, contact Save Our Sounds at P.O. Box 12000, Raleigh, N.C. 27606. Phone: (919) 821-8790.

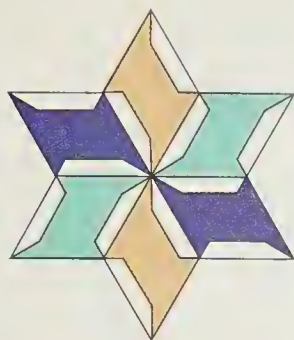
Dixie Deer Classic set for March 5-7 in Raleigh

Five experts on deer hunting are scheduled to appear at the 1993 Dixie Deer Classic March 5 to 7 at the State Fairgrounds in Raleigh.

They are Dick Idol, renowned trophy deer hunter; Myles Keller, noted trophy whitetail bowhunter; Scott Osborne of the N.C. Wildlife Resources Commission; Roger Raglin, producer of videos on hunting techniques; and Gary Sefton, deer vocabulary and calling expert.

The event, which is sponsored by the Wake County Wildlife Club, will be open March 5 from 4 to 9 p.m., March 6 from 9 a.m. to 7 p.m. and March 7 from 9 a.m. to 5 p.m.

For more information, write or call the wildlife club at P.O. Box 12202, Raleigh, N.C. 27605. Phone: (919) 782-5333.



"Lap Quilting" series airs on Public TV

The new season of the program "Lap Quilting With Georgia Bonesteel" opens this winter on North Carolina Public Television stations.

This year's series leads viewers to quicker quilts through simple sewing techniques.

Host Georgia Bonesteel visits Australia, Holland and other locations during the 13 half-hour programs.

Check local listings for air dates and times.

A companion book, "Spinning Spools," can be ordered by calling (800) 647-3600.

Civil War vessel in museum exhibit

The Civil War vessel USS Monitor is the subject of a special exhibit at the North Carolina Maritime Museum in Beaufort through May 31.

The ill-fated ironclad, which sank off the North Carolina coast, is featured in photographs, drawings, a scale model and a repeating video.

For more information, contact the N.C. Maritime Museum, 315 Front St., Beaufort, N.C. 28516. Phone (919) 728-7317.



Public TV looks at N.C. industries

A new program, "Made in North Carolina," spotlighting the variety of industries based in the state, airs on the 10 stations of the University of North Carolina's public television network Feb. 9 at 7:30 p.m.

The half-hour program profiles Kayser-Roth's hosiery plant in Lumberton, a violin maker in Raleigh, and Lance

snack foods in Charlotte.

Reporter Susan Dahlin of WRAL-TV5, Raleigh, also discusses with the industries' managers such issues as competition, "total quality management," automation and labor.

The program is a pilot for a projected series slated to include profiles of other North Carolina industries, including pharmaceuticals, furniture manufacturing, sporting goods, telecommunications and computers.

Audubon prints on display at N.C. Museum of Art

The North Carolina Museum of Art will display a selection from its "Birds of America" collection of prints by John James Audubon, noted ornithologist and artist, Feb. 6 through June 20.

The museum's collection includes a rare copy of the four-volume double elephant folio published from 1827 through 1838.

Because prints are very susceptible to fading due to exposure to light, these delicate works of art are shown only periodically. The museum last exhibited a selection of these hand-colored prints in 1988.

There will be an April 25 lecture on the history of the publication by Cathleen A. Baker, associate professor of Paper Conservation at State University of Buffalo. On the

same day, Don Etherington of Information Conservation in Greensboro will speak on conservation treatment of the prints.



Audubon's flamingo (above) and cardinals are among the Museum of Art prints to be exhibited.

For more information, contact the museum at 2110 Blue Ridge Road, Raleigh, N.C. 27607. Phone (919) 839-6262.

Burlington to host antiques fair

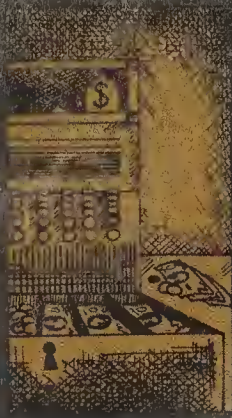
The Alamance-Caswell Medical Society Auxiliary will sponsor the 31st Annual Burlington Antiques Fair at Fairchild Community Center, 827 South Graham-Hopedale Road in Burlington March 19-21.

The show will be open from 10 a.m. to 9 p.m. on March 19, from 10 a.m. to 6 p.m. on March 20 and from 12:30 to 6 p.m. on March 21.

A multi-item raffle is scheduled for the final day. One ticket will buy a chance to win one of several antique items.

For more information, write or call Barbara Rinker at 817 Colonial Drive, Burlington, N.C. 27215. Phone: (919) 584-5211.

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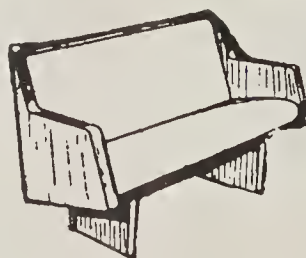
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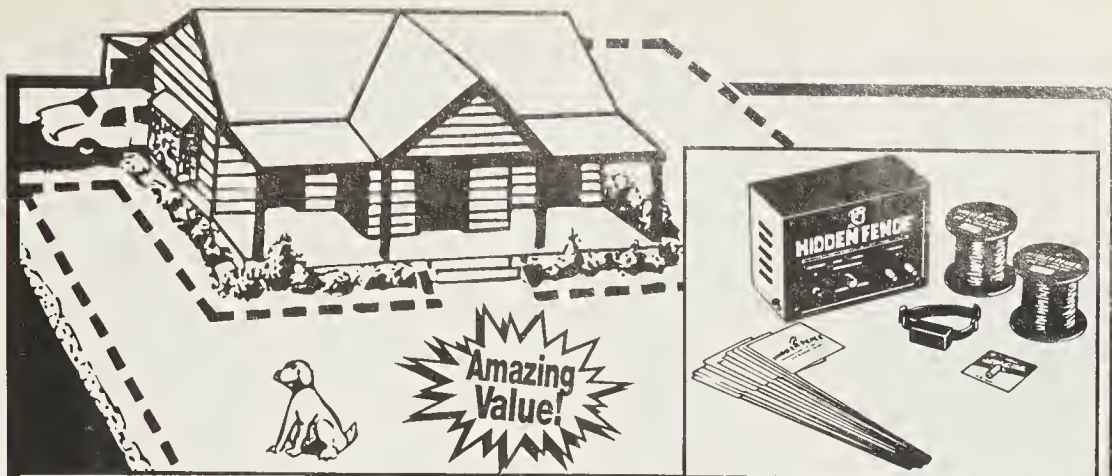
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Maybe you can't match Mom's apple pie because she used tastier apples.

Expert says today's commercial apples just don't measure up to some of the old varieties

Lee Calhoun of Chatham County, who has spent the past 10 years researching and growing old varieties of Southern apples, says the varieties now available to most consumers just don't measure up to the fruit our ancestors enjoyed.

"Most of us don't know what a good apple tastes like," he said. "If you've never eaten anything but the most popular commercial varieties, you think they're fine. But I believe most of them are not the best quality in flavor and texture."

The varieties most readily available, which became popular primarily because of the advantages they offered to growers and processors, are Red Delicious, Golden Delicious, Granny Smith, Rome Beauty and Stayman, he said.

"They look great on the store shelves and they sell well. But lots of older varieties would taste far better."

Among the commercial apples, his choice is the Stayman.

"Of course the best Stayman, the Old Fashioned, is no longer available. The one we can buy is the Red Stayman, and it's a pretty good apple. Another new apple that's often available is the Gala, which is being grown on the West Coast. I like it a lot."

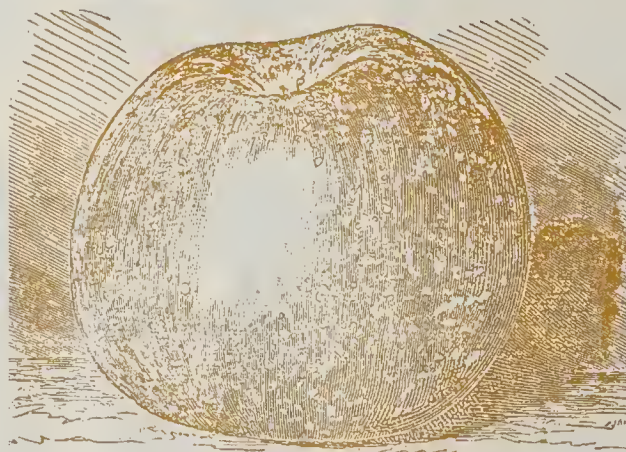
Calhoun, who writes about his efforts to preserve old apple varieties in the feature starting on page 6,

began researching the subject after retiring from the Army.

"I set aside some land for an orchard and began looking for old varieties I could grow. I couldn't find many and realized that some of them had died out entirely. That's when I began searching for old trees to try to save some of the rare varieties."

He's currently completing a book on old Southern apples that will include the history and descriptions of 1,600 varieties that existed before 1928.

He expects the book will be illustrated with some colorful paintings of apple specimens that he stumbled upon while doing research at the U.S. Department of Agriculture in Washington. One of them is reproduced on page 8.



"I opened a file drawer and there were all these wonderful watercolors. I couldn't believe it! Some of them were more than 100 years old. And many of them are of vari-

eties that are now extinct."

For many years, he said, the government had a staff of artists who prepared thousands of such paintings depicting various kinds of fruit.

"This is a real treasure. Some of the paintings were damaged when they were stored in the attic of a federal building but most are in good condition. I had many of them photographed for use in the book. I hope to include about 50 of them."

Do you agree with Calhoun about the quality of the apples now on the market? How would you rate them?

What's your favorite? Let us know and we'll share your views in a future column.

Frustrated bounty hunter finds sweet justice

For the past year, space limitations have barred further use of reader tips on how to get rid of gophers. Now I want to claim this corner to share one more interesting gopher tale before we set the subject aside.

Morris Jorgensen of Rose Hill wrote to describe a childhood-encounter he had with gophers. A neighbor became upset about all the gophers in the neighborhood, and asked Jorgensen to try to get rid of them. He offered the boy a bounty of 10 cents for each gopher he caught or killed. He rose to the challenge,

taking his trusty BB gun in hand. "After wasting about 50 cents worth of BBs, I was disgusted," he said. "My neighbor thought it was pretty humorous. Then, one day, I was talking to an old man who gave me a tip about how to catch gophers: "Get a five gallon bucket of water and a quart jar. When you scare the gophers and they go in their holes, they usually just go down to where they're out of sight. That's when you run to the hole with five gallons of water and dump it into the hole. Then you put the jar over the hole, and the gopher will quickly come out into the jar.

"By following his advice, I caught 12 gophers, but my neighbor never paid the bounty. I turned all the gophers loose—in the man's front yard!"

Correction: NCSU Solar House opened in 1980

Our feature on photovoltaics in the January issue included an error regarding the opening of the Solar House at North Carolina State University's McKinnon Center.

The story said the house was built in 1988. It was actually completed in 1980.

The facility, which was equipped last year with a 3-kilowatt photovoltaic system, is open to visitors as an example of how a dwelling can be designed to take advantage of solar energy. About 20,000 people tour it each year.

For more information about the house, write or call the N.C. Solar Center, Box 7401, Raleigh, N.C. 27695-7401.



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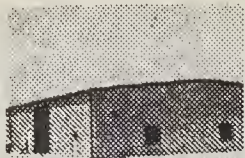
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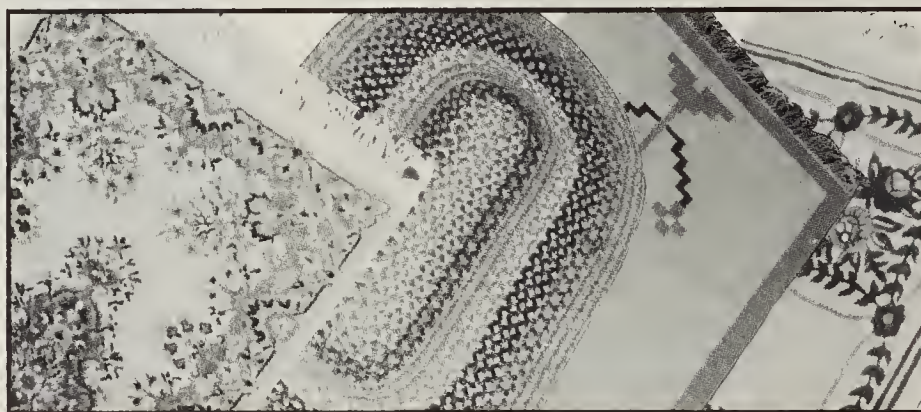


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